## **Amendments to the Specification**

Please replace paragraph [0017] with the following amended paragraph:

The distance index described in the present invention avoids these pitfalls. First, by using resident-level case data the resulting index differentiates accurately between different locales within a county. Only two variables are required <u>for each locale</u>, one from each of the two following categories:

- P: county population, or county population density.
- D: distance in miles or kilometers, or distance in elapsed-minutes.

Please replace the objected-to equation in paragraph [0019] with the following amended equation:

$$sign (\lambda_j) = \begin{cases} +1 \text{ if } \underline{\lambda}_j \ge 0 \\ -1 \text{ otherwise} \end{cases}$$

Please replace the objected-to equation in paragraph [0039] with the following amended equation:

$$E(\epsilon_{jt}\textrm{'}~\epsilon_{jt})=\Omega_{jt}~\text{and}~E(\epsilon_{jt}\textrm{'}~\epsilon_{js})=0~\text{for}~t\not\equiv s.$$

Please replace paragraph [0047] with the following amended paragraph:

Anderson TW, Darling DA. Asymptotic theory of certain goodness of fit criteria based on stochiastic processes. *Ann Math Stat.* 1952;23:193-212.

Please replace paragraph [0048] with the following amended paragraph:

Bindman AB, Grumbach K, Osmond D, et al. Preventable hospitalizations and access to healthcare. *JAMA*. 1995;274(4):305-11.

Please replace paragraph [0049] with the following amended paragraph:

Box GEP, Cox DR. An analysis of transformations. *J Roy Stat Soc, Ser B.* 1964; 26:211-52.

Please replace paragraph [0050] with the following amended paragraph:

Iezzoni LI, Ash AS, Shwartz M, et al. Judging hospitals by severity adjusted mortality rates: the influence of the severity adjustment method. *Am J Public Health* 1996;86(10):1379-87.

Please replace paragraph [0051] with the following amended paragraph:

Iezzoni LI. The risks of risk adjustment. JAMA. 1997;278(19):1600 7.

Please replace paragraph [0052] with the following amended paragraph:

Hezzoni LI, ed. Risk Adjustment for Measuring Healthcare Outcomes. 2e. Washington: AHSR Press, 1997.

Please replace paragraph [0053] with the following amended paragraph:

Millman M, ed. Committee on Monitoring Access to Personal Health Care

Servies. Washington: IOM National Academy Press, 1993.

Please replace paragraph [0054] with the following amended paragraph:

Rosenthal GE, Harper DL, Shah A, et al. A regional evaluation of variation in low severity hospital admissions. *J Gen Intern Med*. 1997;12(7):416-22.

Please replace paragraph [0055] with the following amended paragraph:

Silver MP, Babitz ME, Magill MK. Ambulatory care sensitive hospitalization rates in the aged Medicare population: a rural urban comparison. *J Rural Health*. 1997;13(4):285-94.

Please replace paragraph [0056] with the following amended paragraph:

<del>p.293 5.</del>

Snedecor GW, Cochran WG. Statistical Methods. 8e. Ames: Iowa Press, 1989.

Please replace paragraph [0057] with the following amended paragraph:

Weinert C, Boik RJ. MSU Rurality index: development and evaluation. *Res Nursing Health*. 1995;18:453-64.